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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/691,297	10/22/2003	Geary G. Parke	107725/00006	2242	
75	7590 05/17/2006			EXAMINER	
Miller, Canfield, Paddock and Stone P.L.C.			CINTINS, IVARS C		
c/o Robert Kelley Roth			ART UNIT	PAPER NUMBER	
Suite 2500			ARTONI	TATER NOMBER	
150 West Jefferson Ave.			1724		
Detroit MI 48	226				

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summer:	10/691,297	PARKE, GEARY G.
Office Action Summary	Examiner	Art Unit
·	Ivars C. Cintins	1724
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was preply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		•
3) Since this application is in condition for allowar	action is non-final. nce except for formal matters, pro	•
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.
Disposition of Claims		•
4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) 13-16 is/are withdraw 5) Claim(s) 1-6 and 10-12 is/are allowed. 6) Claim(s) 7-9 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access	rn from consideration. relection requirement.	-vaminer
	•	
Applicant may not request that any objection to the one of the correction of the cor		* *
11) The oath or declaration is objected to by the Ex		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
	•	
Attachment(s)	∧ □	(DTO 440)
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	(PTO-413) te
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Casolo (U.S. Patent No. 3,985,648) in view of Hong (U.S. Patent No. 5,665,240). Casolo discloses an apparatus comprising an inlet connected to a metals trap (24, 28, 32, 36, 40 and/or 44), and a second trap (20) positioned between the inlet and the metals trap. which second trap filters organic materials from wastewater. Accordingly, this primary reference discloses the claimed invention with the exception of the recited phosphate material, and its particle size. Hong discloses removing contaminants from water with calcium phosphate (see col. 3, line 17); and it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the system of Casolo with a calcium phosphate treatment unit, as suggested by Hong, in order to provide additional contaminant removal capability for this primary reference system. Also, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ phosphate particles having the recited size in the system of the thus modified primary reference, since Hong suggests utilizing large particles in commercial applications (see col. 8, lines 14-18).

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Casolo and Hong as applied above, and further in view of Jensen et al. (U.S. Patent No. 6,706,195). The modified primary reference discloses the claimed invention with the

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exception of the recited plumbing arrangement. Jensen et al. discloses a water purification system, and teaches utilizing a plurality of chambers having inlet and outlet valves controlled by a controller (see col. 4, lines 41-45). This reference further teaches the use of diagnostic devices (col. 4, line 23). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the system of the modified primary reference with the plumbing arrangement of Jensen et al., in order to obtain the advantages disclosed by this reference for the system of the modified primary reference.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Casolo and Hong as applied above, and further in view of Faylor et al. (U.S. Patent No. 3,870,033). The modified primary reference discloses the claimed invention with the exception of the recited oxidizer. Faylor et al. discloses purifying water with a series of treatments including oxidation (see col. 5, line 61). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the system of the modified primary reference with the oxidizer unit of Faylor et al., in order to provide additional purification of the liquid undergoing treatment in this modified primary reference system.

Claims 1-6 and 10-12 are <u>allowed</u> because the references of record do not teach or fairly suggest an adsorption apparatus of the type recited wherein the second trap contains fish bone char.

Applicant's arguments filed March 2, 2006 have been noted and carefully considered but are not deemed to be persuasive of patentability. Applicant argues, with

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respect to claim 7, that Hong teaches the use of fine powders which would be rapidly consumed in an industrial waste water treatment system. It is pointed out, however, that Hong clearly teaches that for commercial applications, large particle size materials are preferred (see col. 8, lines 14-18). Accordingly, it would have been obvious to one of ordinary skill in the liquid purification art to employ phosphate particles having the large particle size recited in claim 7 in the industrial system of the primary reference, since this secondary reference clearly suggests this modification.

With respect to claims 8 and 9, Applicant's arguments have been noted and carefully considered, but no longer appear to be relevant in view of the new grounds of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to I. Cintins whose telephone number is 571-272-1155.

The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Duane Smith, can be reached at 571-272-1166.

The centralized facsimile number for the USPTO is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Ivars C. Cintins
Primary Examiner
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I. Cintins May 15, 2006